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 SECURITY INFORMATION
 CENTRAL INTELLIGENCE AGENCY

REPORT NO. **INFORMATION REPORT**

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COUNTRY USSR(Ukrainian SSR)

DATE DISTR. 25 February 1952

SUBJECT Refined Steelworks in the Metallurgical
Plant at Zaporozhe

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NO. OF ENCLS. 6(Annexes 2-60)
(LISTED BELOW)DATE OF
INFO.SUPPLEMENT TO 25X1X
REPORT NO.

location and equipment of the refined steel works within
 the Zaporozhe (35°11'E/47°49'N) metallurgical plant,
 Ukrainian SSR. Such works were mentioned in most of
 these reports either in the text or in the Annex.

1. a. East of the blast furnace installation, the so-called
 "30-ton shop" housing three open-hearth furnaces, each of
 which produces 30 tons of steel per casting, is located
 beside the chill casting department.

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- b. The Bessemer shop is located between the blast fur-

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2. a. The molten iron goes from the blast furnace to the mixing plant by special bucket cars. liquid pig iron is poured into the Thomas converter and is once more cleaned by air blasts. Further shipment to the open-hearth furnaces is done by other bucket cars.
- b. Special chrome nickel is produced in a special workshop southeast of the mixing plant. See Annex 1, sketch 2.
3. The 30-ton department is northeast of the blast furnace installation. It is 60x20 meters and has two electric open-hearth furnaces for chrome nickel steel making. The so-called "TETS" building, where the air blast for the blast furnaces was heated, bordered on the 30-ton department. The blast/housed three turbines. building
4. a. A so-called mixer was close to the blast furnace installation. It served as a reservoir for the molten pig iron to be poured into the open-hearth furnaces.
- b. About 200 to 300 meters from the open-hearth department and parallel to it was a workshop generally called "30-ton shop" as it housed the open-hearth furnaces, which had a capacity of 30 tons. Source learned from skilled workers among the fellow PWs that the [redacted] ion served for the production of refined [redacted]
5. a. For [redacted] ng, the molten pig iron goes, at a rate [redacted] nt, from the blast furnaces to the open [redacted] naces by special bucket cars. The rest [redacted] small foundry, where iron ingots 50 x 20 [redacted] c. Nine open-hearth furnaces are complete, [redacted] is under construction and the excavation for the 11th and 12th furnaces are ready.
- b. A workshop, 120 x 60 meters, serves for making chrome nickel steel. Two electric Siemens furnaces are installed there and two more furnaces are to be set up. The steel is refined there by chrome and nickel, and ingots in the shape and the size of breechlocks are produced there. See Annex 1, sketch 3.

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[redacted] Comment:

a. This report has special value as the layout of the southern and most essential section of the Zaporozhie metallurgical plant is definitely clarified by the data.

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b. The annexed three sketches, which cover the same part of this plant, conform to each other except for trifles. Sketches 2 and 3 especially bear great resemblance to each other and presumably show the

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3

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correct picture of the layout of this main part of this plant. The same layout is given in Sketch 1, which, however, is more schematic.

c. It may be assumed that the most important refined steel department-the so-called "30-ton shop" - which is the crucial point of this report, is north of the blast furnace installation. It is a building of a presumable size of 120x60 meters and very probably houses two electric steel furnaces, each of 30-ton capacity (only one source indicated three furnaces). The capacity of 30 tons is remarkable but thought possible.

d. This report furnishes a valuable contribution to clarifying the survey on the important factory which was the subject of several previously submitted reports.

e. Several pictures, recently published in Soviet newspapers, are enclosed as Annexes 2 through 6. Blast furnace No. 3 and the back wall of the "TETS" thermo-power plant are shown in Annex 2.

The frontside of the "TETS" thermo-power plant is shown in Annex 3. Blast furnace No. 3 is shown at a short distance in Annex 4. Blast furnace No. 4 is shown in Annexes 5 and 6.

6 Annexes:

1. Refined Steel Works in the Zaporozhe Metallurgical Plant.
2. through 5. Metallurgical Plant in Zaporozhe (5 photostats).

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1

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Annex 1

Legend to Annex 1:

Sketch 1:

- 1 Blast furnace installation with four blast furnaces
- 2 Chill casting department
- 3 30-ton shop with three open-hearth furnaces, 35 meters high
- 4 Boiler house with compressors and transformer station, sand blast and heating installation
- 5 Bessemer shop
- 6 Martin department with nine smokestacks
- 7 Warehouses with loading platforms
- 8 Watchtowers

Sketch 2:

- 1 Coke-chemical plant installations
- 2 Four blast furnaces
- 3 Benzol station
- 4 Cooling tower
- 5 Former PW camp
- 6 Small foundry
- 7 Demolished shop, former forge
- 8 Forge
- 9 So-called "TETS" compressor installation for the blast furnaces, with four turbines
- 10 Chrome nickel steel department, 120 x 60 meters, with two open-hearth furnaces, each of 30-ton capacity. The installation of two more furnaces is planned
- 11 Mixer shop, 60 x 30 x 35 meters, with one Thomas converter, in which the slag is separated from the iron by air blast
- 12 Open-hearth department with nine furnaces in operation, three under construction
- 13 Dressing plant for the open-hearth department

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Annex 1

Legend to Annex 1 cont'd:

14 Workshop under construction; the molds and the steel ingot supports will be cleaned there

15 Storage yard for dismantled German machines

16 Transformer station with two high tension pylons

Sketch 3:

1 Coke-chemical department

2 Four blast furnaces

3 Small foundry

4 Demolished workshop

5 Workshop, 200 x 40 meters, equipped with steam-operated hammers and hardening furnaces

6 Emergency power plant and compressor station serving the blast furnaces, with four turbines installed, so-called "TETS" department

7 Former PW camp

8 Chrome nickel steel manufacturing shop with two electric open-hearth furnaces installed, two more furnaces are to be constructed; 120 x 60 meters.

9 Transformer station

10 Dressing shop for the open-hearth department, 200 x 10 meters

11 Open-hearth department

12 Projected rolling mill, where dismantled German machines were stored.

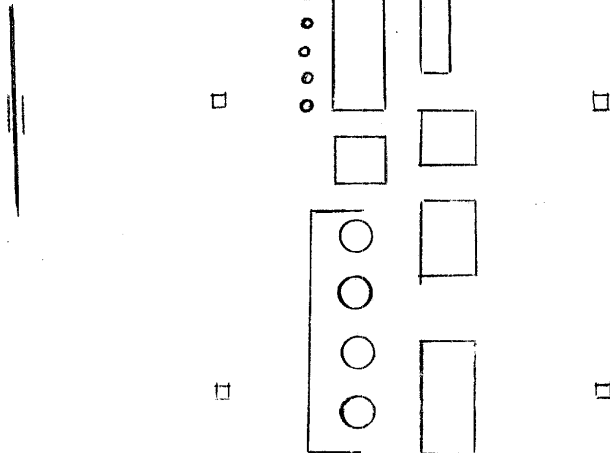
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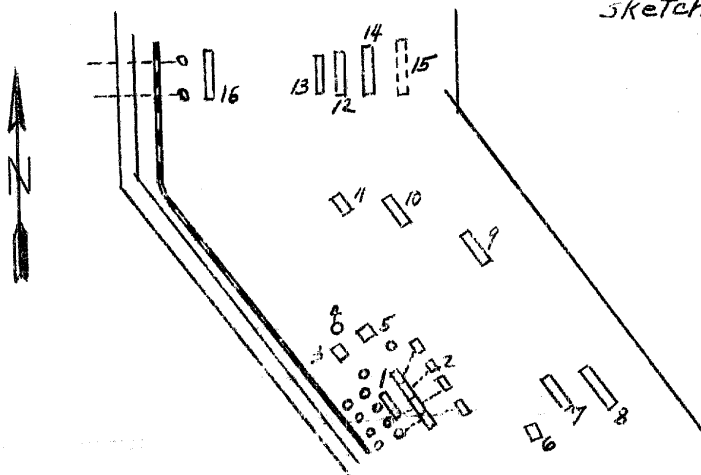
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Sketch No 1

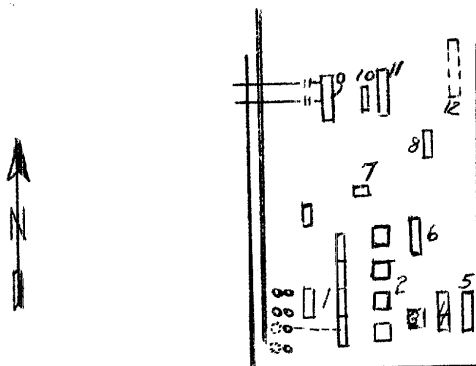
Refined Steelworks in the Zaporozhe
Metallurgical Plant



Sketch No 2

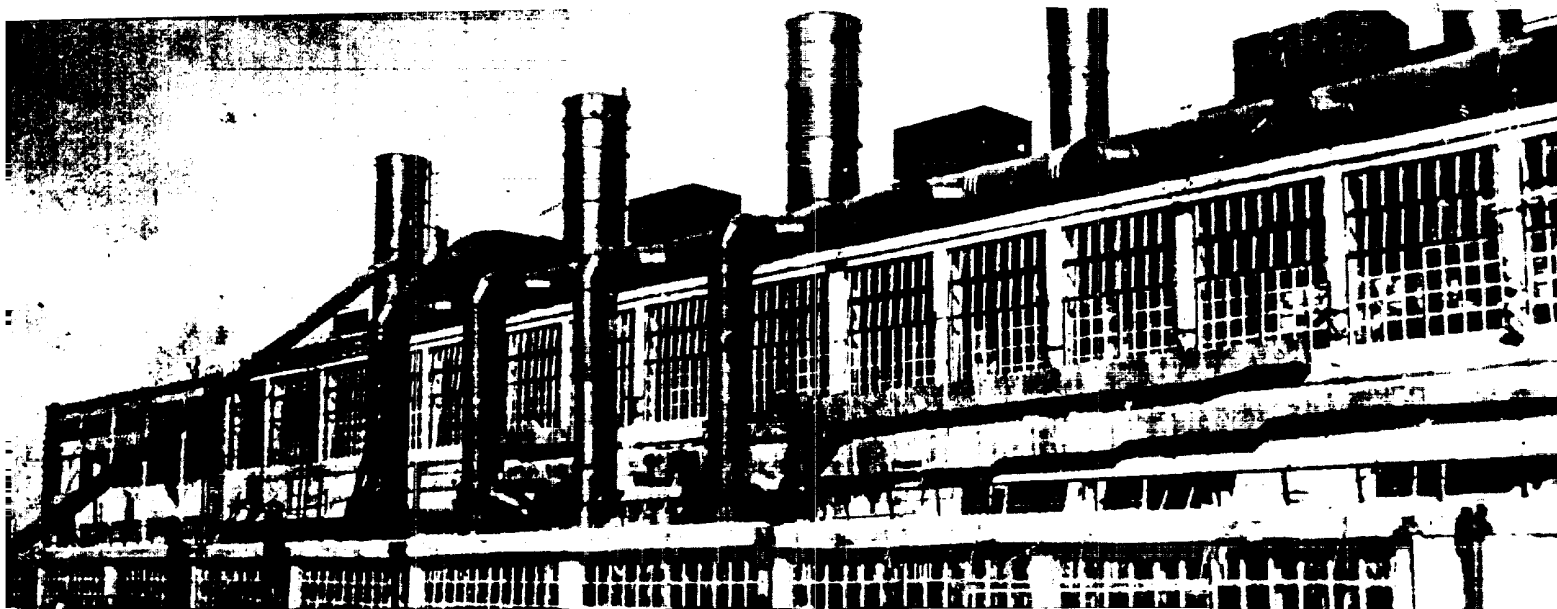


Sketch No 3



Front View of the Heating Power Plant.

Metallurgical Plant in Zaporozhe.



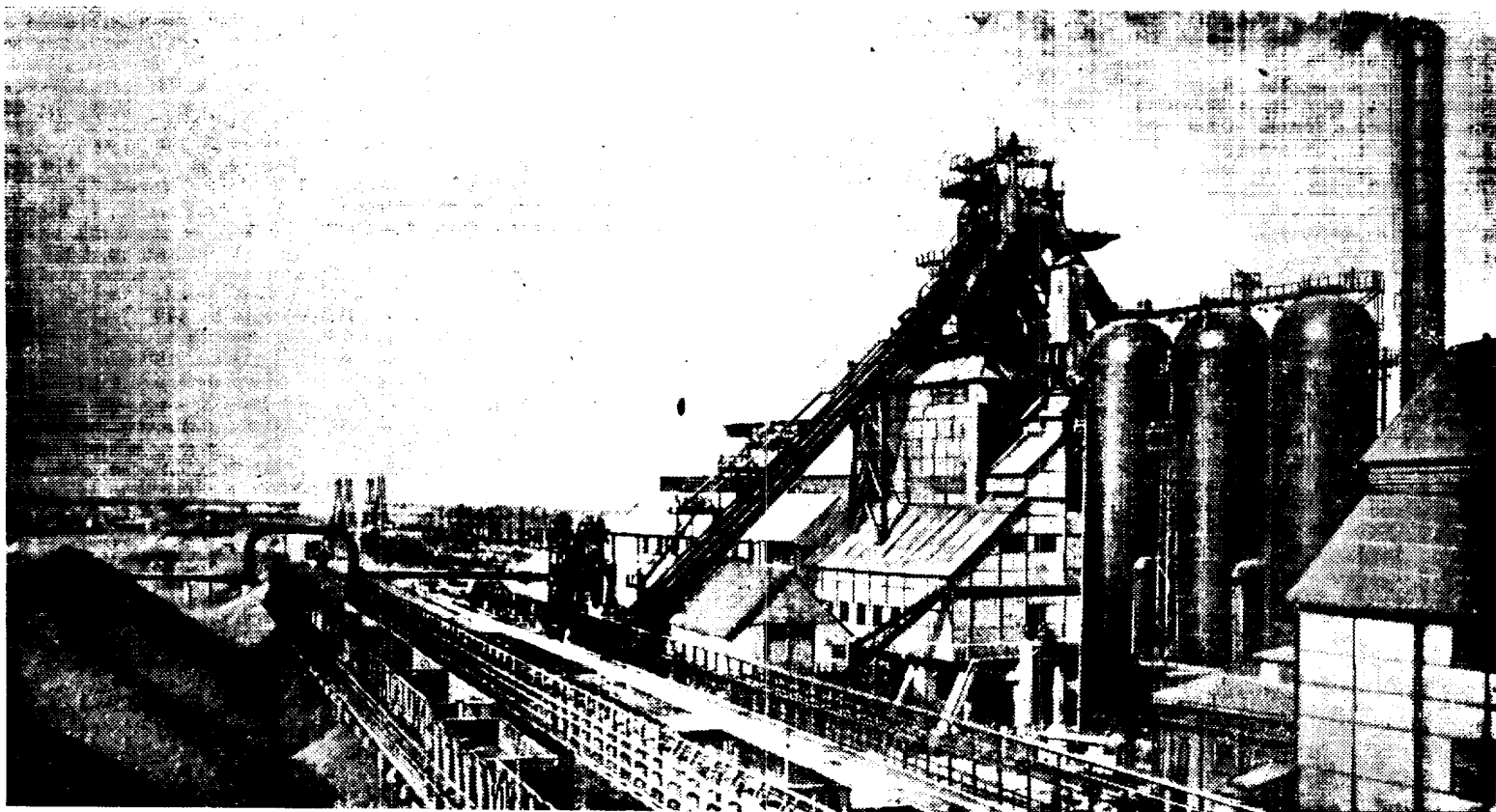
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Annex 6

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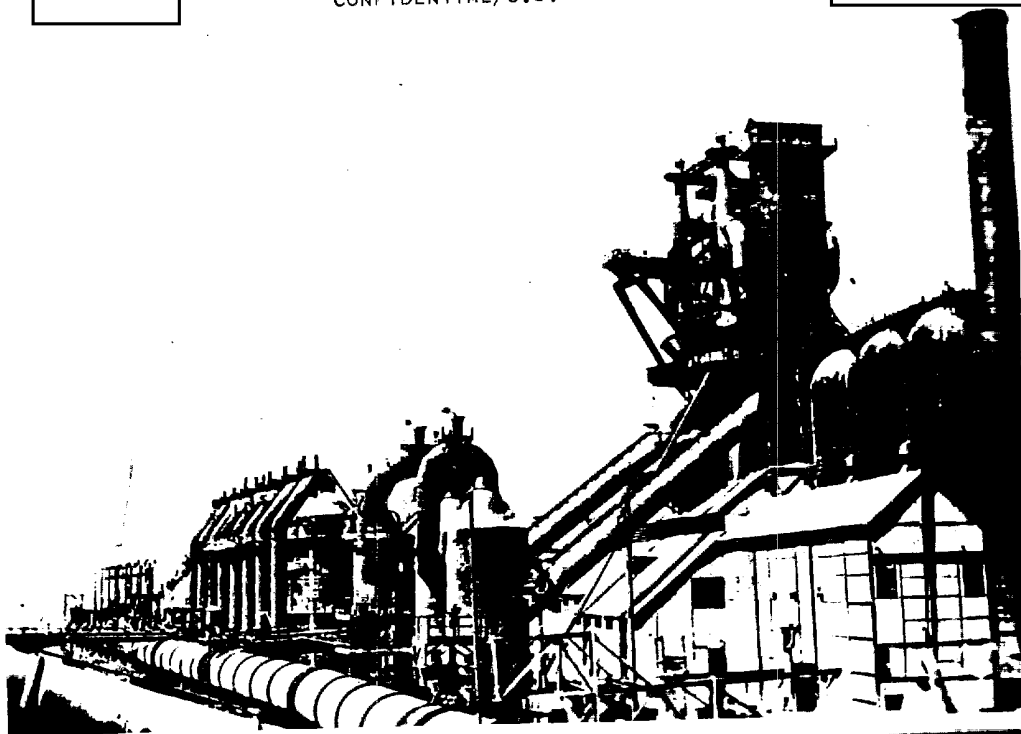
Blast Furnace No.4

Metallurgical Plant in Zaporozhe.



25X1A 4 N USSR UKRAINIAN SSR ZAPOROZHYE 47 49 N 35 11 E
25X1A METALLURGICAL PLANT. BLAST FURNACE No. 3. SEE REPORT FOR SKETCH AND
25X1A ADDITIONAL INFORMATION. [REDACTED] [REDACTED]
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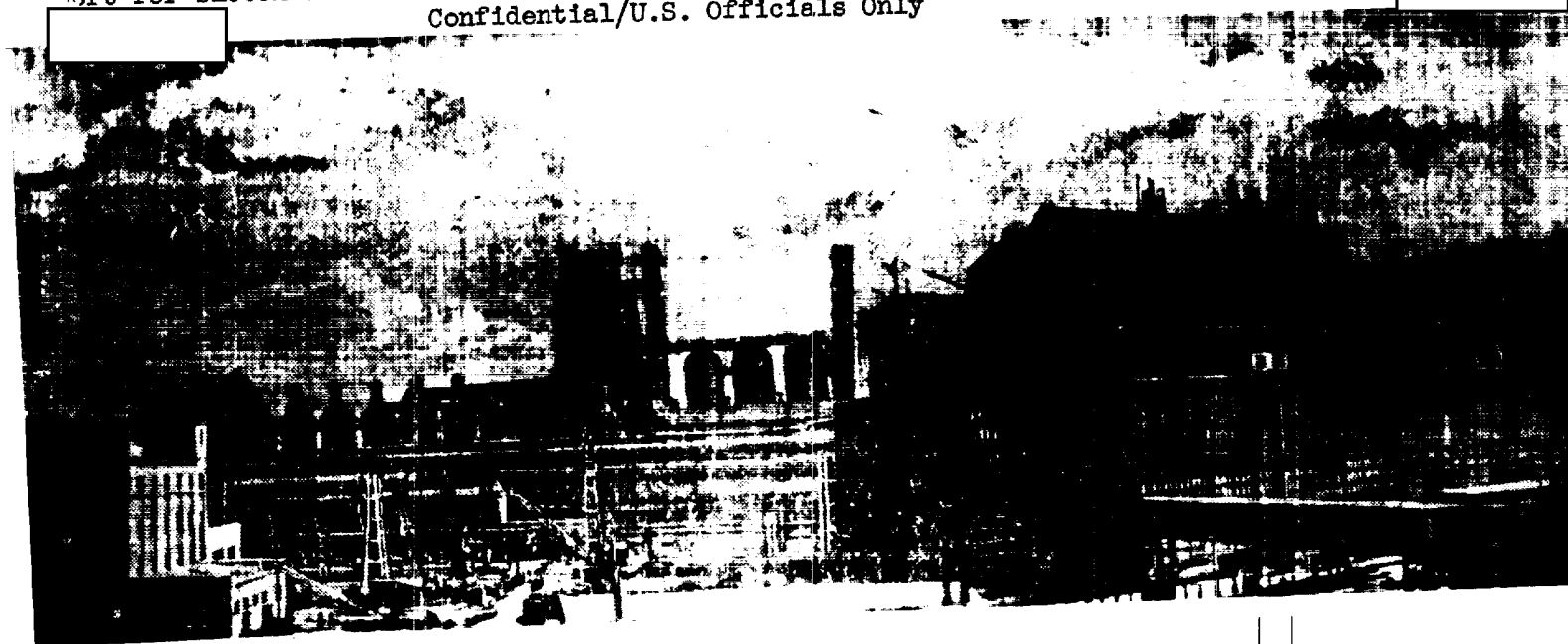


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Annex 2

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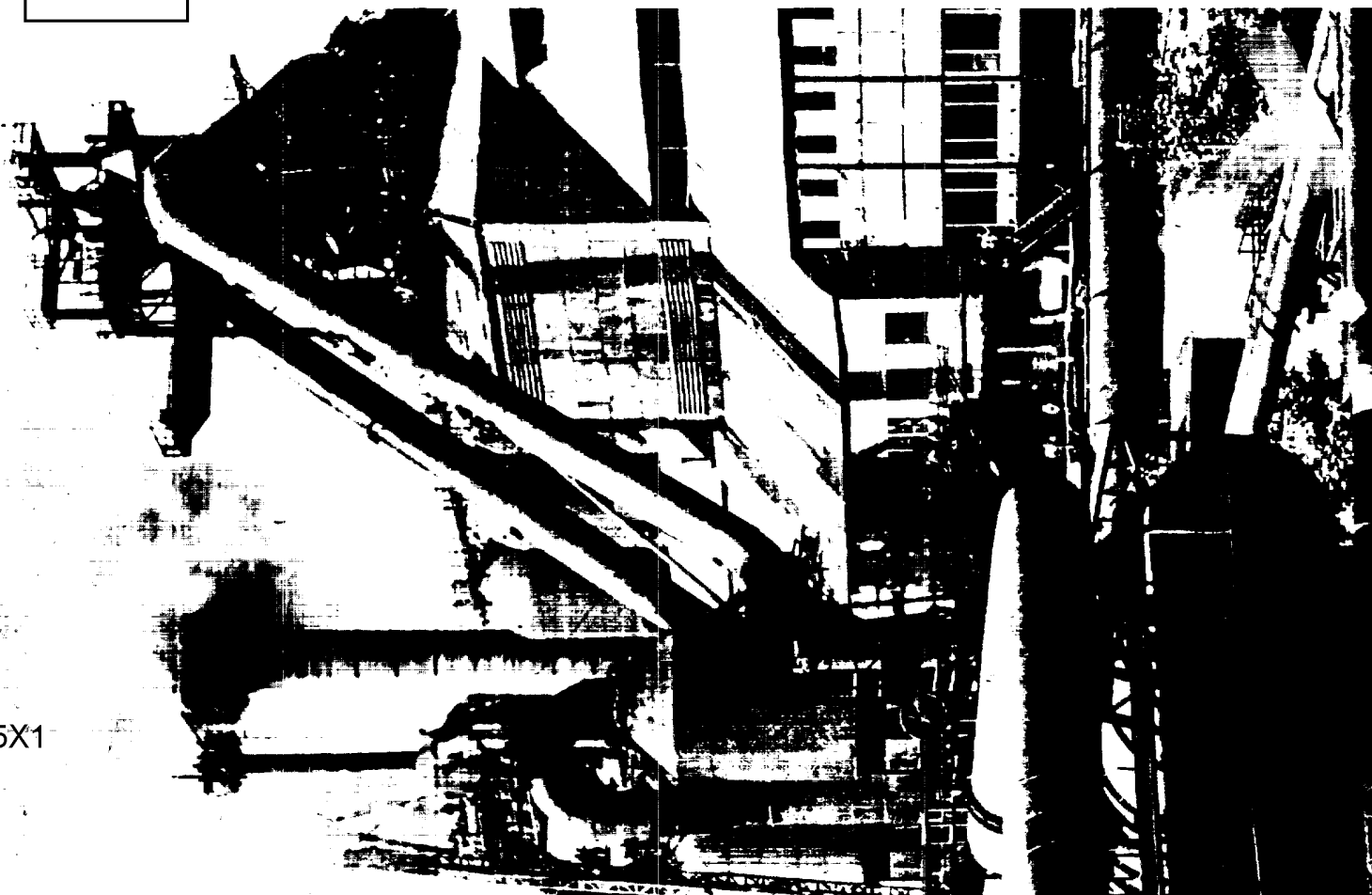
25X1A 4 N USSR UKRAINIAN SSR ZAPOROZHYE 47 49 N 35 11 E
Metallurgical Plant. Blast furnace No. 3 and back front of heating power plant "TEZ". See re-
port for sketch and additional information. [REDACTED] 25X1 [REDACTED]
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Blast Furnace No. 4
Metallurgical Plant in Zaporozhye.

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Dupes of photos previously accessioned.

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